Declassified in Part - Sanitized Copy Approved for Release 2012/09/18 : CIA-RDP78-03642A001600040092-9 feed &B 10/31/67 25X1 October 27, 1961 Dear Sir: In accord with our telephone conversation today, we are enclosing a/Kirk & Blum catalogue for their Series "C" Centrifugal Collectors. Within the category of Type "C" Design 5 Dust Collectors in the catalogue, we have circled Size 19. We think that this unit, manufactured from Type 310 stainless steel, will be useful in your Washington, D. C., application of the Model 1 Incinerator. 25X1 ABW:mlm Enclosure

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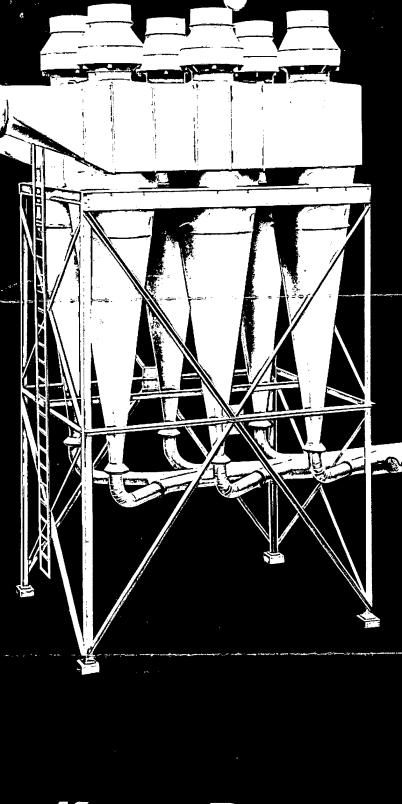
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Cantilited (Marines)

series

- Highly efficient air cleaning and dust collection . . . using centrifugal force
- 2 Design Types...41 sizes ... for widest range of industrial applications
- Low initial investment and operating costs . . . minimum maintenance



KIRK & BLUM

CINCINNATI 9, OHIO











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Z \ \\		CAPACITY C.F.M. 2" S.P.	DIAMETER	HEIGHT	INLET DIAMETER	AIR OUTLET	DUST OUTLET	TYPE C HEIGHT	GAUGE		APPROX	$\overline{}$			
	SIZE									COLLECTOR	STAND	FIRE DAMPER	TYPE C OUTLET	NUMBER PIECES*	SIZE
(cours)	4	350	1'-4"	4'-0"	0'-4"	0"-715"	0'-3"	1'-4"	18	110	150	9	28	1	1
La College		786	2'-0"	5'-3"	0'-6"	0'-11"	0'-4"	1'-9"	18	135	185	13	37	. 1	6
(8) 137 /3.1		1390	2'-8"	6'-9"	0'-8"	1'-3"	0'-515"	2'-2"	18	205	240	17	58	1	\top
No. Sel 1	10	2130	3'-4"	8'-6"	0'-10"	1"-7"	0'-7"	2'-6"	18	290	335	23	86	1	1
Com Say	12	3140	4'-0"	9'-8"	1'-0"	15-10"	0'-8"	3'-0"	18	380	430	28	118	1	1
((0.21) T	14	4275	4'-8"	11'-1"	1'-2"	2'-2"	0'-10"	3'-5"	18	415	485	35	154	1	1.
	16	supo	5'-4"	12'-5"	1'-4"	2'-6"	0'-11"	3'-10"	18	660	625	51	198	1	11
	18	7000	6'-0"	145-17	1'-6"	2"-10"	1'-1"	4'-4"	18	825	835	60	232	1	11
	20	8790	6'-8"	15'-6"	1'-8"	3'-1"	1'-2"	4'-9"	18	1115	920	71	293	14	21
ADIL, FLEDY OF LOTY TVFT DEGREEST	22	10500	7'-4"	17'-0"	1'-10"	3'-5"	1'-3"	5'-2"	16	1420	1045	94	403	14	2
ED AVAILATIE.	24	12600	8'-0"	18'-3"	2'-0"	3'.9"	1'-5"	5'-7"	16	1690	1175	111	463	16	2
	26	14790	8'-8"	19'-11"	2'-2"	4'-0"	1'-6"	6'-1"	16	1990	1380	151	532	22	2
	28	17100	9'-4"	21'-4"	2'-4"	4"-4"	1'-8"	6'-5"	16	2300	1865	167	612	27	2
	30	19600	10'-0"	22'-9"	2'-6"	4'-8"	1'-9"	7'-0"	16	2610	2095	186	692	38	3
اور ا	32	22300	10'-8"	24'-5"	2'-8"	5"-0"	1'-10"	7'-5"	16	2980	2325	207	777	45	3
7 \ 288	34	25200	11'-4"	25'-10"	2'-10"	5'-3"	1'-11"	7'-11"	16	3390	2575	230	865	47	3
	36	28300	12'-0"	27'-2"	3'-0"	5'-7"	2'-1"	8'-4"	16	3810	2720	257	968	48	3
图 图	38	31500	12'-8"	28'-11"	3'-2"	5'-11"	2'-2"	8'-10"	16	4250	3425	285	1072	51	3
[]	40	34900	13'-4"	30'-1"	3'-4"	6'-3"	2'-4"	9'-3"	14	5555	3635	385	1405	59	4
V=:=!/	42	38400	14'-0"	31'-8"	3'-6"	6'-6"	2'-5"	9".9"	14	6155	4295	394	1542	62	4
ᅥᆖᄪᅼ	44	42200	14'-8"	33'-0"	3"-8"	6'-10"	2'-7"	10'-2"	14	6760	4425	434	1690	66	4
	46	46200	15'-4"	34'-9"	3'-10"	7'-2"	2'-8"	10'-8"	14	7420	5855	474	1868	77	4
	48	50200	16'-0"	35'-11"	4'-0"	7'-5"	2'-10"	11'-2"	14	8100	6235	515	2055	83	4
1 241 1 1	1 10	****	147.00	27' 4"	41.00	7' 6/7	0' 11"	137 307	14	6770	4474	***	0000		

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- 1	11	1 2		50	54500	16'-8"	37'-4"	4'-2"	7'-9"	2'-11"	11'-7"	14	8770	6675	562	2230	85	54
1	4		<u> </u>										*Excluding air discl	harge outlet.				
	#	i	000 005 000 005							3	TY	PE "	C" DES	IGN 5	Dust	Collec	tors =	3
	3 8		CAPACITY	T		INLET	AIR	DUST			WEIGHT				APPROX.	X.		
	A	. ///	1 1	SIZE	0.F.M. 4" \$.P.	DIAMETER	COLLECTOR	DIAMETER	OUTLET	OUTLET	C-OUTLET HEIGHT	GAUGE	COLLECTOR	STAND	FIRE	TYPE C OUTLET	APPROX. NUMBER PIECES*	SIZ
W.	-477	1///	16	4	260	1'-0%"	5'-0"	315"	0'-5%"	2"	1'-1"	36"	100	164	10	13	2	_
111		///	1 8	5	400	15456"	6'-3"	4"	0'-715"	215"	1'-3"	34"	150	210	13	20	2	
11	1	///	9 1	٠.	40	157%"	7'-4"	5"	0'-8%"	3"	1'-5"	56"	225	245	19	30	2	
-1	W /	//		7	800	1'-1134"	8'-5"	6"	0'-10%"	314"	1'-7"	16"	295	283	24	41	2	1
- 1	11/	1	9		1050	2'-21/2"	9'-6"	r	0'-11%"	3%"	1'-9"	54"	375	409	31	52	2	
_ 1	1.0		1	,	13 0	2'-5%"	10'-7"	8"	1'-1%"	416"	1'-11"	16"	465	484	37	65	2	
7.0	112	<i>i</i> i		10	16:0	2'-914"	11'-8"	815"	1'-255"	434"	2'-1"	%"	570	529	49	10	2	10
y	Will	/		- 11	2000	3'-014"	12'-9"	935"	1'-4%"	516"	2'-3"	56"	700	582	56	97	2	11
	// W		i	12	23 0	3'-3%"	13'-10"	10%"	1'-534"	5%"	2'-5"	34"	830	630	66	115	2	10
	//	\		13	27 0	3'-7"	14'-11"	11"	1"-7%"	6"	2'-6"	14"	950	664	73	130	2	10
//	11-1	11	ित	14	3200	3'-101/2"	16'-0"	12"	1'-934"	6%"	2'-9"	56"	1140	727	86	158	2	14
		W 1	5 1	15	3700	45-1%"	12"-1"	13"	1'-10\4"	7"	2'-11"	56"	1280	791	97	179	2	11
	CHET	1/1		16	4200	4'-3"	18'-4"	14"	15-1139"	714"	3'-3"	16"	1445	821	108	203	2	11
//	OPTICE	· WI	15.0	17	4700	4'-8%"	19'-5"	1435"	2'-1%"	8"	3'-5"	54"	1570	989	127	218	2	12
/	617.	11/1	9	18	5360	4'-1136"	20'-5"	15%"	2'-2%"	815"	3'-7"	56"	1815	1040	137	252	2	11

SIZE

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AIR CLEANING by centrifugal force

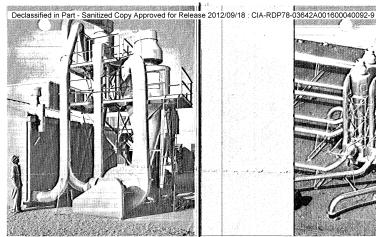
This air cleaning method is limited only by the magnitude of the force created and the time cycle within the unit. From the standpoint of theoretical design, any dust particle, regardless of size, can be separated from an air stream, provided the weight of the particle is greater than the weight of the air displaced. Because initial expense and operating cost both increase as the particle size decreases, the use of centrifugal separation is limited by practical considerations.

COLLECTOR SELECTION

When collectors discharge to the atmosphere, they must have efficiency in the range of 99% plus to avoid public nuisance in many locations. Kirk & Blum collectors will produce results of this magnitude when properly selected for the materials to be handled.

A screen test will frequently give enough information to safely select Design 3 collectors. Past experience in handling the same material can also be an excellent guide.

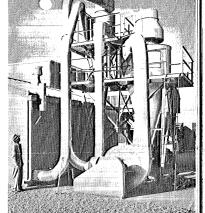
The selection of collectors for materials below 44 microns can be guided by a particle size analysis when percentages are determined by elutriation down to one (1) micron. A test run of material in our research center is frequently made with full size equipment to produce conclusive answers. There are conditions, however, where conclusive evidence can only be obtained under actual operation.

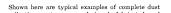


Research and Development Center operated by Kirk & Blum utilizes full size equipment to determine proper collector selection.

COMBINATION SYSTEMS

On those applications which require the collection of bulk as well as fine dust, effective results may be obtained by the use of a Design 3 collector for primary cleaning, followed by a battery of small diameter Design 5 collectors for after-cleaning. Very efficient results on difficult applications have been achieved in



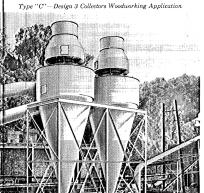






Subject to the limitations in particle sizes mentioned above, and on page 2, Kirk & Blum Series "C" Collectors will produce efficient results with low initial investment and operating costs, as well as minimum maintenance... an item of great magnitude in various complex mechanical collectors.

For 50 years, The Kirk $\,\&$ Blum Manufacturing Company has been engaged in the design, fabrication and installation of industrial dust collecting systems. To secure assistance in the solution of your dust collection problem, contact Kirk & Blum's Engineering Service Department. They will analyze your problem, and offer suggestions for collector applications, or for a complete dust collecting system.





THE KIRK & BLUM MANUFACTURING COMPANY CINCINNATI 9, OHIO

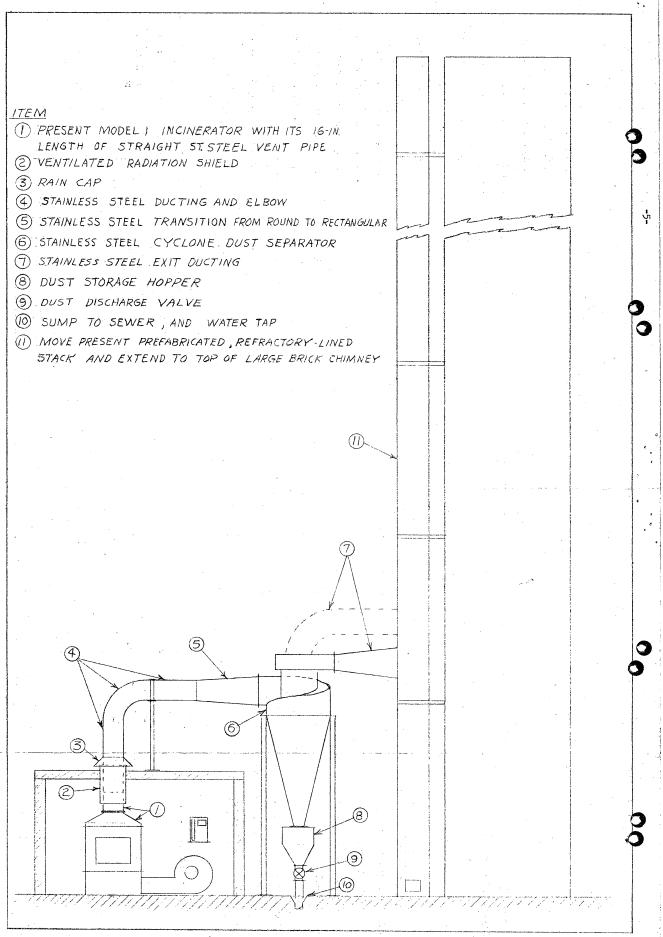


FIGURE 1 POSSIBLE ARRANGEMENT FOR A DRY-TYPE CYCLONE SEPARATOR

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ITEM 1 PRESENT MODEL 1 INCINERATOR WITH ITS 16-IN LENGTH OF STRAIGHT ST. STEEL VENT PIPE (2) VENTILATED RADIATION SHIELD 3 RAIN CAP 4 STAINLESS STEEL DUCTING AND ELBOW (5) STAINLESS STEEL QUENCHING DUCT WITH WATER SPRAYS 6 WET DUST SCRUBBER WITH EXHAUST BLOWER AND CIRCULATING WATER PUMP. (ST. STEEL SCRUBBER) 1) DISCHARGE WATER LINE TO SEWER (8) STAINLESS EXIT DUCTING (9) MOVE PRESENT, PREFABRICATED, REFRACTORY-LINED STACK AND EXTEND TO TOP OF LARGE BRICK CHIMNEY, OR ERECT STAINLESS STEEL STACK OF SAME HEIGHT (10) DAMPER WITH INTERLOCKING CONTROL LINKED TO AIR DAMPER OF INCINERATOR (9), 0 (3)

FIGURE 2 POSSIBLE ARRANGEMENT FOR A WET-TYPE DUST SCRUBBER

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